

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Estimate for Improvements to Roads and Drains at Sahakaranagara 20th Cross Road 9th Main, B Block and 21st B Cross Road 2nd Main C Block in Ward No. 08, Kodigehalli Sub Division.

		Estimate Cost:				1300000.00			
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page No. 138 / Item No. 19.1/ PWD SR 2014-15	Cum							
	Drain Desilting								
	Sahakaranagara 'B' Block		2	135.00	0.45	0.45	54.68		
	C Block		2	60.00	0.45	0.45	24.30		
			2	90.00	0.45	0.45	36.45		
	Berm Cutting								
	Sahakaranagara 'B' Block		2	135.00	1.00	0.25	67.50		
	C Block		2	60.00	1.00	0.25	30.00		
			2	90.00	1.00	0.25	45.00		
	Culvert		2	6.00	2.00	1.20	28.80		
							286.73	75.60	21676.00
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	75.60							
2	Removing B.S Slab of Drain and stacking Page No. 25 / Item No. 5.32 / PWD SR 2014-15	Sqm							
	Sahakaranagara 'B' Block		2	135.00		1.35	364.50		
	C Block		2	60.00		1.35	162.00		
			2	90.00		1.35	243.00		
							769.50	58.32	44877.00
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	58.32							
3	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25 / Item No. 5.33 / PWD SR 2014-15	Sqm							
			Qty Vide Item No. 12				769.50	75.60	58174.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	75.60							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2. No. 12/ Item No. 4.3/ PWD SR 2014-15	Cum							
	Culvert		2	6.00	2.00	0.15	3.60		
							3.60	4847.04	17449.00
	Basic Rate	4488.00							
	Area Weightage @8%	359.04							
	Total	4847.04							
5	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / Item No. 5.12 / PWD SR 2014-15	Cum							
			2x2	6.00	0.60	0.90	12.96		
							12.96	4773.60	61866.00
	Basic Rate	4420.00							
	Area Weightage @ 8%	353.60							
	Total	4773.60							
6	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 109 / Item No. 15.4 / PWD SR 2014-15	Sqm							
			2x2	6.00		0.80	19.20		
							19.20	92.88	1783.00
	Basic Rate	86.00							
	Area Weightage @ 8%	6.88							
	Total	92.88							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6/ PWD SR 2014-15	Cum							
	Pointing		2	6.00	1.80	0.10	2.16		
	Ramp		2x2	6.00	1.00	0.15	3.60		
							5.76	5327.64	30687.00
	Basic Rate	4933.00							
	Area Weightage @ 8%	394.64							
	Total	5327.64							
8	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplasticiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15	Cum							
			2	6.00	1.80	0.23	4.97		
							4.97	6065.28	30132.00
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	6065.28							
9	KSRB 4.9.1: Providing mild steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17 / Item No. 4.45 / PWD SR 2014-15	Qtl							
	For Roof, Columns @ 90 Kg / Cum		0.90	4.97			4.47	7975.80	35661.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	7385.00							
	Area Weightage @ 8%	590.80							
	Total	7975.80							
10	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31/ PWD SR 2014-15	Sqm							
			2	6.00	0.60		7.20		
			2x2	6.00		0.23	5.52		
			2x2	1.80		0.23	1.66		
							14.38	292.68	4208.00
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	292.68							
11	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, No. 157 / Item No. 21.3 / PWD SR 2014-15	Sqm							
	C Block		2	60.00	1.00		120.00		
			1	90.00	7.00		630.00		
							750.00	82.94	62208.00
	Basic Rate	76.80							
	Area Weightage @ 8%	6.14							
	Total	82.94							
12	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications Page No. 154 / Item No. 20.18 PWD SR - 2014-15.	Cum							
	C Block		2	60.00	1.50	0.15	27.00		
			1	90.00	7.00	0.15	94.50		
							121.50		
	Consider 10% for Road Cutting						12.15		
							133.65	1438.56	192264.00
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	1438.56							
13	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 P. 157 / I. 21.1 PWDSR 2014-15	Sqm							
	Sahakaranagara 'B' Block		1	135.00	6.00		810.00		
	C Block		1	60.00	5.00		300.00		
			1	90.00	7.00		630.00		
							1740.00	12.20	21235.00
	Basic Rate	11.30							
	Area Weightage @ 8%	0.90							
	Total	12.20							
14	KSRRB M500-6: Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502, Page No. 157 / Item No. 21.5 / PWD SR 2014-15	Sqm							
			Qty Vide Item No. 04				1740.00		
	Basic Rate	69.00					1740.00	74.52	129665.00
	Area Weightage @ 8%	5.52							
	Total	74.52							
15	KSRRB M500-18: Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. using 100-120 TPH capacity H.M.P with sensor paver grading II (25-30mm) with 5% CRMB-55 grade, No. 160 / Item No. 21.21.2 / PWD SR 2014-15	Cum							
	Sahakaranagara 'B' Block		1	135.00	6.00	0.025	20.25		
	C Block		1	60.00	5.00	0.025	7.50		
			1	90.00	7.00	0.025	15.75		
							43.50		
	Consider 15% For Depression Filling						6.53		
							50.03	11070.00	553777.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	10250.00							
	Area Weightage @ 8%	820.00							
	Total	11070.00							
16	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means including loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				272.39	73.57	20040.00
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	73.57							
17	Sub Total								1285702.00
18	For Third Part QC inspection Charges @ 1% of Estimate Cost								12857.00
19	Miscellaneous and other Charges	L/S							1441.00
								Total	1300000.00
(Rs. Thirteen Lakhs Only)									

CERTIFICATE:

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per PWD SR of 2014-15.
- 3 This work included under POW Grants 2014-15.
- 4 The provisions were made in this estimate are necessary and adequate.
- 5 This works come under B.B.M.P. limits.


Assistant Engineer


Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayanyapura Sub Division


Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative approval for Rs. 1300000.00
Rs - Thirteen lakhs only

is accorded under head P-1771

registered as EE No. 49 Subject to conditions contained enclosed memo.

No. Aey/As/PR/1120/14-15 4-12-14

AE/JE

Technical Sanction for Rs. 1300000.00
Rs - Thirteen lakhs only

P-1771

Registered as EE No. 49 Date 22/12/14 Subject to conditions contained enclosed memo.

No. 260 Dr. 22/12/14


EE (BTP.DIV.)

Improvements to Roads and Drains at Sahakarnagara 20th Cross Road 9th B Main, B Block and 21st B Cross Road 2nd Main C Block in Ward No. 08 Kodigehalli Sub Division.

